

FILTER REGULATORS

Stainless steel

TCR 6 FR III SERIE

STANDARD SERIES FROM 3/4" TO 1", 60 BAR



Filter/regulators made of stainless steel 316L, designed and manufactured for heavy-duty applications. Control system with convolved diaphragm for the best stability and precision. Balanced poppet-valve (shutter), to keep the outlet pressure almost constant and independent from fluctuation of inlet pressure. Self-relieving execution for exhausting over-pressure, just for compressed air application. Outlet pressure range till to 50 bar (725 psi), adjustable by screw with hexagonal head. Connections for outlet pressure gauge on both the sides. Special version (without self relieving for gases and water) on request.

APPLICATIONS:

- Pharmaceutical industry;
- Chemical industry;
- Oil & gas and Off Shore applications
- Food industry

FEATURES:

- Particular attention to the low level of roughness of surfaces, to grant high standard of cleaning;
- Compatible for use in aggressive environment;
- Suitable for extreme temperatures (-60°C), critical environments, hazardous applications;
- Suitable to be cleaned and sanitized by the most common processes;

MATERIALS

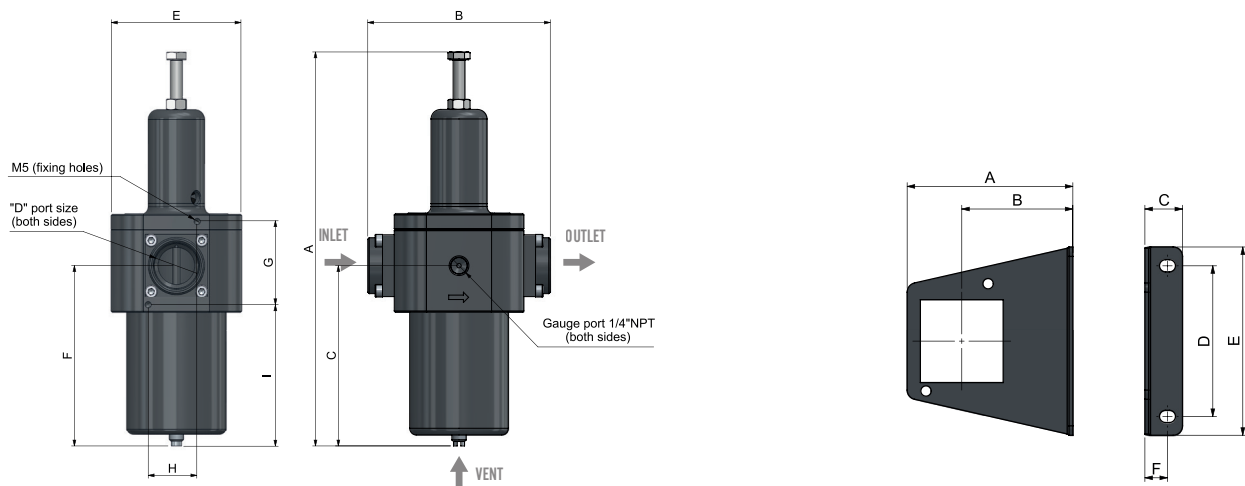
Body, bonnet	316L stainless steel
Bowl	316L stainless steel
Seals	HNBR – EPDM – FKM - Silicone
Diaphragm	HNBR – EPDM – FKM - Silicone
Internal parts	316L stainless steel
Shutter	PU - HNBR – EPDM – FKM - Silicone
Filter element	Stainless steel 316L (5-25-50 µ)

TECHNICAL DATA

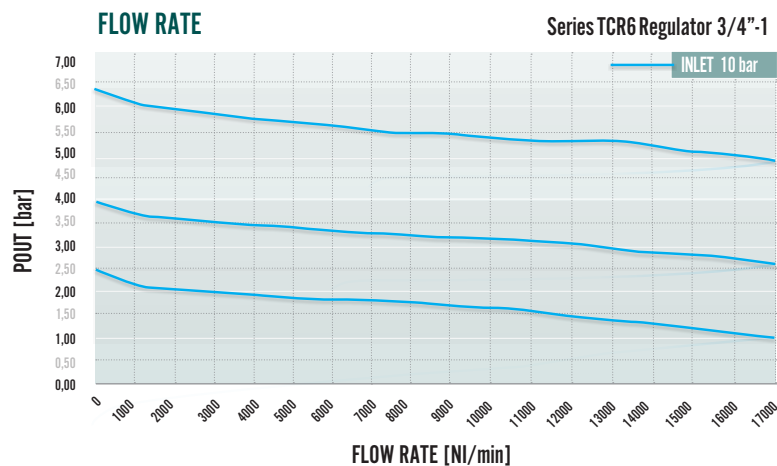
	3/4" SERIE III	1" SERIE III
Port thread	3/4" BSPP F – 3/4" NPT F	1" BSPP F – 1" NPT F
P. max Inlet	60 Bar (50 bar Temp>80°C) 16 Bar with automatic drain	
Range outlet pressure	0.3-3 / 0.5-8 / 0.5-17.2 / 2,5-25 / 5-50 Bar / 4.4-44 / 7.2-116 / 7.2-250 / 36-362 / 72.5-725 Psi	
Gauge connections	1/4" BSPP F - 1/4" BSPP F	
Drain	Manual - Automatic	
Self-relieving port	1/8" BSPP F	
Flow rate *)	850 Nm ³ /h – 14000 lt/min	
Kv	Kv = 1.69 Nm ³ /h (EN 60534)	
Weight	4,2kg/9lb	
Working temp.	-25°C to +110°C (HNBR) / -50°C to +130°C (EPDM) -60°C to +230°C Silicone / -20°C +200°C FKM (optional)	
Conformity to Directives	2014/34/EU ATEX - ASTM A182 Nace MR0.175 - 2014/68/EU PED	

*) P_{IN} 10bar, P_{OUT} 6.3bar, ΔP 1bar

Stainless steel



SIZE	A	B	C	D	E	F	G	H	I	SIZE	A	B	C	D	E	F
3/4"-1"	268	114	123	3/4"-1"	88	123	57	33	96	1/4"	88	59	20	80	100	12



OPTIONALS :

- Bracket
- Gauge
- Flanges (EN1092-1/ANSI)
- Without relieving
- Automatic drain (Pin max. 16 bar)
- Oring Kalrez®
- Threaded connection for exhausting gas on bonnet